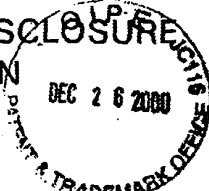


INFORMATION DISCLOSURE CITATION

PTO-1449



ATTY. DOCKET NO.
A-67499-1/RFT/
RMS/RMK

SERIAL NO:
09/472,657

APPLICANT:
KAYYEM

FILING DATE:
December 27, 1999

GROUP
3736

1634

U.S. PATENT DOCUMENTS

EXAMINER'S INITIALS		PATENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE
<i>u</i> ✓	1	4,707,352	11/17/87	Stavrianopoulos			
✓	2	4,707,440	11/1987	Stavrianopoulos	435	6	
✓	3	4,711,955	12/8/87	Ward et al.			
✓	4	4,755,458	7/5/88	Rabbani et al.			
✓	5	4,849,513	7/18/89	Smith et al.	536	27	
✓	6	4,868,103	9/19/89	Stavrianopoulos et al.			
✓	7	4,894,325	1/16/90	Englehardt et al.			
✓	8	4,943,523	7/24/90	Stavrianopoulos			
✓	9	4,952,685	8/28/90	Stavrianopoulos			
✓	10	4,994,373	2/19/91	Stavrianopoulos			
✓	11	5,002,885	3/26/91	Stavrianopoulos			
✓	12	5,013,831	5/7/91	Stavrianopoulos			

FOREIGN PATENT DOCUMENTS

EXAMINER'S INITIALS		PATENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
							Yes	No
<i>u</i> ✓	13	0-63879	11/3/82	Europe ✓				
✓	14	92/10757	6/25/92	PCT (WO) ✓				
✓	15	0 234938	2/26/87	EP (A2) ✓				
✓	16	93/10267	PCT					

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

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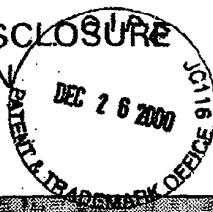
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1/11/2003


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8085 1449A.FRM (8/95)

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				APPLICANT: KAYYEM			
				FILING DATE: December 27, 1999		GROUP 3736 1634	



U.S. PATENT DOCUMENTS							
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✓	17	5,082,830	1/21/92	Brakel et al.			
✓	18	5,175,269	12/29/92	Stavrianopoulos			
✓	19	5,241,060	8/31/93	Englehardt et al.			
✓	20	5,278,043	1/11/95	Bannwarth et al.	536	23.1	
✓	21	5,312,527	5/17/94	Mikkelsen et al.	204	153.12	
✓	22	5,328,824	7/12/94	Ward et al.			
✓	23	5,449,767	9/12/95	Ward et al.			
✓	24	5,472,881	12/95	Beebe et al.	436	94	
✓	25	5,476,928	12/19/95	Ward et al.			
✓	26	5,595,908	1/21/97	Fawcett et al.	435	287.2	
✓	27	5,565,552	10/15/96	Magda et al.	534	11	
✓	28	5,573,906	11/12/96	Bannwarth et al.	435	6	
✓	29	5,591,578	1/7/97	Meade et al.	435	6	
✓	30	5,601,982	2/1997	Sargent et al.	435	6	

FOREIGN PATENT DOCUMENTS								
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✓	31	2 090904	9/24/93	CANADA ✓				
✓	32	0 599337	1/16/94	EPO ✓				
✓	33	238,166	1988	JP (Abstract (63-238166)) ✓				
✓	34	0 229943	7/29/87	EP ✓				
✓	35	96/40712	12/19/96	WO ✓				

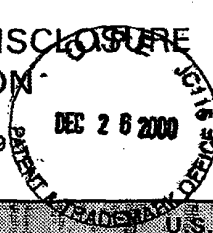
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				FILING DATE: December 27, 1999		GROUP 3786 1634	
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W ✓	36	4,840,893	6/20/89	Hill et al.	435	6	
✓	37	5,403,451	4/4/95	Riviello et al.	204	153.1	
✓	38	5,620,850	4/15/97	Barndad et al.	530	300	
✓	39	5,780,234	7/14/98	Meade et al.	435	6	
✓	40	5,770,369	6/23/98	Meade et al.	435	6	
✓	41	5,705,348	1/6/98	Meade et al.	435	6	
✓	42	5,824,473	10/1998	Meade et al.	435	6	
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FOREIGN PATENT DOCUMENTS							
EXAMINER'S INITIALS	PATENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
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W	43	0515615	9/4/96	EP (UK)			
✓	44	97/01646	1/16/97	WO			
✓	45	93/23425	11/25/93	WO			
✓	46	90/05732	5/31/90	WO			
✓	47	6-41183	2/15/94	JP			X
✓	48	93/22678	11/1993	PCT			
✓	49	97/44651	11/1997	PCT			
✓	50	98/35232	8/1998	PCT			
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)							
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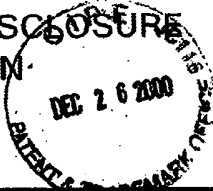


U.S. PATENT DOCUMENTS							
EXAMINER'S INITIALS		PATENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE
<i>W</i>	51	5,776,672	7/1998	Hashimoto et al.			
<i>✓</i>	52	5,952,172	9/1999	Meade et al.			
<i>✓</i>	53	5,552,270	9/1996	Khrapko et al.			
<i>✓</i>	54	5,741,700	4/1998	Ershov et al.			
<i>✓</i>	55	5,770,721	6/1998	Ershov et al.			
<i>✓</i>	56	5,851,772	12/1998	Mirzabekov et al.			
<i>✓✓</i>	57	5,756,050	5/1998	Ershov et al.			
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FOREIGN PATENT DOCUMENTS								
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							Yes	No
<i>W✓</i>	58	95/15971	6/1995	PCT /				
<i>✓</i>	59	94/22889	10/1994	PCT /				
<i>✓</i>	60	98/20162	5/1998	PCT /				
<i>✓</i>	61	99/14596	3/1999	PCT /				
<i>✓</i>	62	99/67425	12/1999	PCT /				
<i>✓</i>	63	98/28444	7/1998	PCT /				
<i>✓</i>	64	98/27229	6/1998	PCT /				
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EXAMINER <i>Wheeler</i>	DATE CONSIDERED <i>1/16/2003</i>
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OTHER DOCUMENTS (Including Author, Title, Date, Page(s), Etc.)			
<input checked="" type="checkbox"/>	66	Alleman, K.S., et al., "Electrochemical Rectification at a Monolayer-Modified Electrode," <i>J. Phys. Chem.</i> , 100:17050-17058 (1996).	
<input checked="" type="checkbox"/>	67	Arkin et al. "Evidence for Photoelectron Transfer Through DNA Intercalation," <i>J. Inorganic Biochem. Abstracts</i> , 6th International Conference on Bioinorganic Chemistry, 51(1) & (2):526 (1993).	
<input checked="" type="checkbox"/>	68	Barisci et al., "Conducting Polymer Sensors," <i>TRIP</i> , 4(9):307-311 (1996).	
<input checked="" type="checkbox"/>	69	Baum, R. M., "Views on Biological, Long-Range Electron Transfer Stir Debate," <i>C&EN</i> , pp 20-23 (1993).	
<input checked="" type="checkbox"/>	70	Bechtold, R., et al., "Ruthenium-Modified Horse Heart Cytochrome c: Effect of pH and Ligation on the Rate of Intramolecular Electron Transfer between Ruthenium(II) and Heme(III)," <i>J. Phys. Chem.</i> , 90(16):3800-3804 (1986).	
<input checked="" type="checkbox"/>	71	Bidan, "Electroconducting conjugated polymers: new sensitive matrices to build up chemical or electrochemical sensors. A Review.," <i>Sensors and Actuators</i> , B6:45-56 (1992).	
<input checked="" type="checkbox"/>	72	Biotechnology and Genetics: Genetic Screening Integrated Circuit," <i>The Economist</i> (February 25-March 3, 1995).	
<input checked="" type="checkbox"/>	73	Boguslavsky, L. et al., "Applications of redox polymers in biosensors," <i>Solid State Ionics</i> , 60:189-197 (1993).	
<input checked="" type="checkbox"/>	74	Bowler, B. E., et al., "Long-Range Electron Transfer in Donor (Spacer) Acceptor Molecules and Proteins," <i>Progress in Inorganic Chemistry: Bioinorganic Chemistry</i> , 38:259-322 (1990).	
<input checked="" type="checkbox"/>	75	Brun, A. M., et al., "Photochemistry of Intercalated Quaternary Diazaaromatic Salts," <i>J. Am. Chem. Soc.</i> , 113:8153-8159 (1991).	
<input checked="" type="checkbox"/>	76	Bumm, et al., "Are Single Molecular Wires Conducting?," <i>Science</i> 271:1705-1707 (1996).	
<input checked="" type="checkbox"/>	77	Cantor, C.R. et al., "Report on the Sequencing by Hybridization Workshop," <i>Genomics</i> , 13:1378-1383 (1992).	
<input checked="" type="checkbox"/>	78	Chang, I-Jy, et al., "High-Driving-Force Electron Transfer in Metalloproteins: Intramolecular Oxidation of Ferrocycytochrome c by Ru(2,2'-bpy) ₂ (im)(His-33) ³⁺ ," <i>J. Am. Chem. Soc.</i> , 113:7056-7057 (1991).	
<input checked="" type="checkbox"/>	79	Chidsey, C.E.D., et al., "Free Energy and Temperature Dependence of Electron Transfer at the Metal Electrolyte Interface," <i>Science</i> , 251:919-923 (1991).	
<input checked="" type="checkbox"/>	80	Chidsey, et al., "Coadsorption of Ferrocene-Terminated and Unsubstituted Alkanethiols on Gold" Electroactive Self-Assembled Monolayers," <i>J. Am. Chem. Soc.</i> , 112:4301-4306 (1990).	
<input checked="" type="checkbox"/>	81	Chrissey, et al., "Covalent attachment of synthetic DNA to self-assembled monolayer films," <i>Nucleic Acids Research</i> , 24(15):3031-3039 (1996).	
<input checked="" type="checkbox"/>	82	Clery, "DNA Goes Electric," <i>Science</i> , 267:1270 (1995).	
<input checked="" type="checkbox"/>	83	Commerce Business Daily Issue of September 26, 1996 PSA#1688.	
X			
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3736 1634

OTHER DOCUMENTS (Including Author, Title, Date, Patent, Pages, Etc.)

u✓	85	Davis, L. M., et al., "Electron Donor Properties of the Antitumour Drug Amsacrine as Studied by Fluorescence Quenching of DNA-Bound Ethidium," <i>Chem.-Biol. Interactions</i> , 62:45-58 (1987).
X	86	Davis, L. M., et al., "Elements of biosensor construction," <i>Enzyme Microb. Technol.</i> 17:1030-1035 (1995).
X	87	Degani et al., "Direct Electrical Communication between Chemically Modified Enzymes and Metal Electrodes. 2. Methods for Bonding Electron-Transfer Relays to Glucose Oxidase and D-Amino-Acid Oxidase," <i>J. Am. Chem. Soc.</i> 110:2615-2620 (1988).
X	88	Degani, Y., et al., "Electrical Communication between Redox Centers of Glucose Oxidase and Electrodes via Electrostatically and Covalently Bound Redox Polymers," <i>J. Am. Chem. Soc.</i> , 111:2357-2358 (1989).
X	89	Degani, Y., et al., "Direct Electrical Communication between Chemically Modified Enzymes and Metal Electrodes. 1. Electron Transfer from Glucose Oxidase to Metal Electrodes via Electron Relays, Bound Covalently to the Enzyme," <i>J. Phys. Chem.</i> , 91(6):1285-1288 (1987).
X	90	Deinhammer, R.S., et al., "Electrochemical Oxidation of Amine-containing compounds: A Route to the Surface Modification of glassy carbon electrodes," <i>Langmuir</i> , 10:1308-1313 (1994).
X	91	Dreyer, G. B., et al., "Sequence-specific cleavage of single-stranded DNA: Oligodeoxynucleotide-EDTA-Fe(III)," <i>Proc. Natl. Acad. Sci. USA</i> , 82:968-972 (1985).
X	92	Durham, B., et al., "Photoinduced Electron-Transfer Kinetics of Singly Labeled Ruthenium Bis(bipyridin) Dicarboxybipyridine Cytochrome c Derivatives," <i>Biochemistry</i> , 28:8659-8665 (1989).
X	93	Durham, B., et al., "Electron-Transfer Kinetics of Singly Labeled Ruthenium(II) Polypyridine Cytochrome c Derivatives," <i>Advances in Chemistry Series</i> , 226:181-193 (1990).
X	94	Elias, H., et al., "Electron-Transfer Kinetics of Zn-Substituted Cytochrome c and Its Ru(NH ₃) ₆ (Histidine-33) Derivative," <i>J. Am. Chem. Soc.</i> , 110:429-434 (1988).
X	95	Farver, O., et al., "Long-range intramolecular electron transfer in azurins," <i>Proc. Natl. Acad. Sci. USA</i> , 86:6968-6972 (1989).
X	96	Fox, L. S., et al., "Gaussian Free-Energy Dependence of Electron-Transfer Rates in Iridium Complexes," <i>Science</i> , 247:1069-1071 (1990).
X	97	Fox, M. A., et al., "Light-Harvesting Polymer Systems," <i>C&EN</i> , pages 38-48 (March 15, 1993).
X	98	Francois, J-C., et al., "Periodic Cleavage of Poly(dA) by Oligothymidylates Covalently Linked to the 1,10-Phenanthroline-Copper Complex," <i>Biochemistry</i> , 27:2272-2276 (1988).
X	99	Friedman, A. E., et al., "Molecular 'Light Switch' for DNA: Ru(bpy) ₂ (dppz) ²⁺ ," <i>J. Am. Chem. Soc.</i> , 112:4960-4962 (1990).
✓	100	Fromherz, P., et al., "Photoinduced Electron Transfer in DNA Matrix from Intercalated Ethidium to Condensed Methylviologen," <i>J. Am. Chem. Soc.</i> , 108:5361-5362 (1986).
✓	101	Gardner, et al., "Application of conducting polymer technology in microsystems," <i>Sensors and Actuators</i> , A51:57-66 (1995).
✓	102	Gregg, B. A., et al., "Cross-linked redox gels containing glucose oxidase for amperometric biosensor applications," <i>Anal. Chem.</i> , 62:258-263 (1990).
✓✓	103	Gregg, B. A., et al., "Redox Polymer Films Containing Enzymes. 1. A Redox-Conducting Epoxy Cement: Synthesis, Characterization, and Electrocatalytic Oxidation of Hydroquinone," <i>J. Phys. Chem.</i> , 95:5970-5975 (1991).

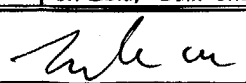
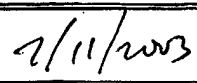
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OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)			
✓	104	Hashimoto, et al., "Sequence-Specific Gene Detection with a Gold Electrode Modified with DNA Probes and an Electrochemically Active Dye," <i>Anal. Chem.</i> 66:3830-3833 (1994).	
✓	105	Hegner, et al., "Immobilizing DNA on gold via thiol modification for atomic force microscopy imaging in buffer solutions," <i>FEBS</i> 336(3):452-456 (1993).	
✓	106	Heller, A., et al., "Amperometric biosensors based on three-dimensional hydrogel-forming epoxy networks," <i>Sensors and Actuators</i> , 13-14:180-183 (1993).	
✓	107	Heller, A., "Electrical Wiring of Redox Enzymes," <i>Acc. Chem. Res.</i> , 23:128-134 (1990).	
✓	108	Heller et al., "Fluorescent Energy Transfer Oligonucleotide Probes," <i>Fed. Proc.</i> 46(6):1968 (1987) Abstract No. 248.	
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✗	110	Hobbs et al., "Polynucleotides Containing 2'-Amino-2'-deoxyribose and 2'-Azido-2'-deoxyribose," <i>Biochemistry</i> , 12(25):5138-5145 (1973).	
✗	111	Hsung, et al., "Synthesis and Characterization of Unsymmetric Ferrocene-Terminated Phenylethynyl Oligomers," <i>Organometallics</i> , 14:4808-4815 (1995).	
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✗	113	Jenkins et al., "A Sequence-Specific Molecular Light Switch: Tebhering of an Oligonucleotide to a Dipyridophenazine Complex of Ruthenium (III), <i>J. Am. Chem. Soc.</i> , 114:8736-8738 (1992).	
✓	114	Katritzky, et al., "Pyridylethylation - A New Protection Method for Active Hydrogen Compounds," <i>Tetrahedron Letters</i> , 25(12):1223-1226 (1984).	
✓	115	Kelley, S.O. and J.K. Barton, "Electrochemistry of Methylene Blue Bound to a DNA-Modified Electrode," <i>Bioconjugate Chem.</i> , 8:31-37 (1997).	
✓	116	Kojima et al., "A DNA Probe of Ruthenium Bipyridine Complex Using Photocatalytic Activity," <i>Chemistry Letter</i> , pp 1889-1982 (1989).	
✓	117	Laviron, E., "A.C. Polarography and Faradaic Impedance of Strongly Adsorbed Electroactive Species. Part I: Theoretical and Experimental Study of a Quasi-Reversible Reaction in the Case of a Langmuir Isotherm," <i>J. Electroanal. Chem.</i> , 97:135-149 (1979).	
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✓	119	Lee, et al., "Direct Measurement of the Forces Between Complementary Strands of DNA," <i>Science</i> , 266:771-773 (1994).	
✓	120	Lenhard, J.R., et al., "Part VII Covalent Bonding of a Reversible- Electrode Reactant to Pt Electrodes Using an organosilane Reagent" <i>J. Electroanal. Chem.</i> , 78:195-201 (1977).	
✓	121	Lipkin "Identifying DNA by the Speed of Electrons," <i>Science News</i> , 147(8):117 (1995).	
EXAMINER <i>W. L. M.</i>		DATE CONSIDERED <i>1/16/2003</i>	

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OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, Etc.)			
uv	122	Maskos, et al., "Oligonucleotide hybridisations on glass supports: a novel linker for oligonucleotide synthesis and hybridisation properties of oligonucleotides synthesised <i>in situ</i> ," <i>Nucleic Acids Research</i> , 20(7):1679-1684 (1992).	
X	123	Mazzocchi, Ph.H. and G. Fritz, "Photolysis of N-(2-Methyl-2-Propenyl)phthalimide in Methanol. Evidence Supporting Radical-Radical Coupling of a Photochemically Generated Radical Ion Pair," <i>Journal of the American Chemical Society</i> , 108(18):5361-5362 (1986).	
✓	124	McGee, et al., "2'-Amino-2'-deoxyuridine <i>via</i> an Intramolecular Cyclization of a Trichloroacetimidate," <i>J. Org. Chem.</i> , 61:781-785 (1996).	
✓	125	Meade, T. J., "Driving-Force Effects on the Rate of Long-Range Electron Transfer in Ruthenium-Modified Cytochrome c," <i>J. Am. Chem. Soc.</i> , 111:4353-4356 (1989).	
✓	126	Meade, T. J., et al., "Electron Transfer through DNA: Site-Specific Modification of Duplex DNA with Ruthenium Donors and Acceptors," <i>Angew. Chem. Int. Ed. Engl.</i> , 34:352 (1995).	
X	127	Mestel, "'Electron Highway' Points to Identity of DNA," <i>New Scientist</i> , p. 21 (1995).	
X	128	Millan, et al., "Voltammetric DNA Biosensor for Cystic Fibrosis Based on a Modified Carbon Paste Electrode," <i>Anal. Chem.</i> , 66:2943-2948 (1994).	
X	129	Millan, K.M., et al., "Covalent Immobilization of DNA onto Glassy Carbon Electrodes," <i>Electroanalysis</i> , 4(10):929-932 (1992).	
✓	130	Millan, K.M. and Mikkelsen, S.R., "Sequence-Selective Biosensor for DNA Based on Electroactive Hybridization Indicators," <i>Anal. Chem.</i> , 65:2317-2323 (1993).	
✓	131	Miller, C., "Absorbed ω -Hydroxy Thiol Monolayers on Gold Electrodes: Evidence for Electron Tunneling to Redox Species in Solution," <i>J. Phys. Chem.</i> , 95:877-886 (1991).	
✓	132	Murphy, C. J., et al., "Long-Range Photoinduced Electron Transfer Through a DNA Helix," <i>Science</i> , 262:1025-1029 (1993).	
X	133	Orellana, G., et al., "Photoinduced Electron Transfer Quenching of Excited Ru(II) Polypyridyls Bound to DNA: The Role of the Nucleic Acid Double Helix," <i>Photochemistry and Photobiology</i> , 54(4):499-509 (1991).	
✓	134	Palecek, "From Polarography of DNA to Microanalysis with Nucleic Acid-Modified Electrodes," <i>Electroanalysis</i> , 8(1):7-14 (1996).	
✓	135	Paterson, "Electric Genes: Current Flow in DNA Could Lead to Faster Genetic Testing," <i>Scientific American</i> , 33-34 (May 1995).	
✓	136	Purugganan, M. D., et al., "Accelerated Electron Transfer Between Metal Complexes Mediated by DNA," <i>Science</i> , 241:1645-1649 (1988).	
X	137	Rhodes, D. And A. Klug, "Helical Periodicity of DNA Determined by Enzyme Digestion," <i>Nature</i> , 286:573-578 (1980).	
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X	139	Sato, Y., et al., "Unidirectional Electron Transfer at Self-Assembled Monolayers of 11-Ferrocenyl-1-undecanethiol on Gold," <i>Bull. Chem. Soc. Jpn.</i> , 66(4):1032-1037 (1993).	
EXAMINER		DATE CONSIDERED	
			

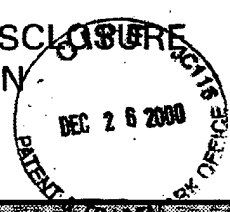

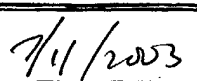
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8085 1449A.FRM (8/95)

INFORMATION DISCLOSURE CITATION PTO-1449		ATTY. DOCKET NO. A-67499-1/RFT/ RMS/RMK	SERIAL NO: 09/472,657
		APPLICANT: KAYYEM	
		FILING DATE: December 27, 1999	GROUP 3736 1634
OTHER DOCUMENTS (Including Author, Title, Date, Portion, Pages, Etc.)			
✓	140	Satyanarayana, S., et al., "Neither Δ- nor Λ-Tris(phenanthroline)ruthenium(II) Binds to DNA by Classical Intercalation," <i>Biochemistry</i> , 31(39):9319-9324 (1992).	
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X	142	Schuhmann, W., et al., "Electron Transfer between Glucose Oxidase and Electrodes via Redox Mediators Bound with Flexible Chains to the Enzyme Surface," <i>J. Am. Chem. Soc.</i> , 113:1394-1397 (1991).	
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X	144	Sigal et al., "A Self-Assembled Monolayer for the Binding and Study of Histidine-Tagged Proteins by Surface Plasmon Resonance," <i>Anal. Chem.</i> , 68(3):490-497 (1996).	
X	145	Southern, et al., "Arrays of complementary oligonucleotides for analysing the hybridisation behaviour of nucleic acids," <i>Nucleic Acids Research</i> , 22(8):1368-1373 (1994).	
X	146	Strobel, S. A., et al., "Site-Specific Cleavage of a Yeast Chromosome by Oligonucleotide-Directed Triple-Helix Formation," <i>Science</i> , 249:73-75 (1990).	
✓	147	Su, et al., "Interfacial Nucleic Acid Hybridization Studied by Random Primer ³² P Labelling and Liquid-Phase Acoustic Network Analysis," <i>Analytical Chemistry</i> , 66(6):769-777 (1994).	
X	148	Telser, J., et al., "DNA Duplexes Covalently Labeled at Two Sites: Synthesis and Characterization by Steady-State and Time-Resolved Optical Spectroscopies," <i>J. Am. Chem. Soc.</i> , 111:7226-7232 (1989).	
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X	150	Tour, "Conjugated Macromolecules of Precise Length and Constitution. Organic Synthesis for the Construction of Nanoarchitectures," <i>Chem. Rev.</i> , 96:537-553 (1996).	
✓	151	Tour, et al., "Self-Assembled Monolayers and Multilayers of Conjugated Thiols, α-ω-Dithiols, and Thioacetyl-Containing Adsorbates. Understanding Attachments between Potential Molecular Wires and Gold Surfaces," <i>J. Am. Chem. Soc.</i> , 117:9529-9534 (1995).	
✓	152	Tullius, T.D. and B.A. Dombroski, "Iron(III) EDTA Used to Measure the Helical Twist Along Any DNA Molecule," <i>Science</i> , 230:679-681 (1985).	
✓	153	Turro, N., et al. "Photoelectron Transfer Between Molecules Adsorbed in Restricted Spaces," <i>Photochem. Convers. Storage Sol. Energy, Proc. Int. Conf.</i> , 8th, pp 121-139 (1990).	
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✓ X	156	Van Ness, J., et al., "A Versatile Solid Support System for Oligodeoxynucleotide Probe-Based Hybridization Assays," <i>Nucleic Acids Research</i> , 19(12):3345-3349 (1991).	
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INFORMATION DISCLOSURE CITATION PTO-1449 DEC 26 2000 OFFICE OF THE PATENT EXAMINER		ATTY. DOCKET NO. A-67499-1/RFT/ RMS/RMK	SERIAL NO: 09/472,657
		APPLICANT: KAYYEM	
		FILING DATE: December 27, 1999	GROUP 3756 1634
OTHER DOCUMENTS (including Author, Title, Date, Portion, Pages, Etc.)			
u X	157	Weber, et al., "Voltammetry of Redox-Active Groups Irreversibly Adsorbed onto Electrodes. Treatment Using the Marcus Relation between Rate and Overpotential," <i>Anal. Chem.</i> , 66:3164-3172 (1994).	
X	158	Williams, et al., "Studies of oligonucleotide interactions by hybridisation to arrays: the influence of dangling ends on duplex yield," <i>Nucleic Acids Research</i> , 22(8):1365-1367 (1994).	
X	159	Winkler, J. R., et al., "Electron Transfer in Ruthenium-Modified Proteins," <i>Chem. Rev.</i> , 92:369-379 (1992).	
✓	160	Xu, et al., "Immobilization of DNA on an Aluminum(III) alkaneobisphosphonate Thin Film with Electrogenenerated Chemiluminescent Detection," <i>J. Am. Chem. Soc.</i> , 116:8386-8387 (1994).	
✓	161	Xu, et al., "Immobilization and Hybridization of DNA on an Aluminum(III) Alkanebisphosphonate Thin Film with Electrogenenerated Chemiluminescent Detection," <i>J. Am. Chem. Soc.</i> , 117:2627-2631 (1995).	
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✓	168	Korri-Youssoufi et al., "Toward Bioelectronics: Specific DNA Recognition Based on an Oligonucleotide-Functionalized Polypyrrole," <i>J. Am. Chem. Soc.</i> , 119(31):7388-7389 (1997).	
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		APPLICANT: KAYYEM	
		FILING DATE: December 27, 1999	GROUP 3736 1634
		OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)	
<input checked="" type="checkbox"/>	172	Lincoln et al., "Shorting Circuiting the Molecular Wire," J. Am. Chem. Soc., 119(6)1454-1455 (1997).	
<input checked="" type="checkbox"/>	173	Velev et al., "In Situ Assembly of Colloidal Particles into Miniaturized Biosensors," The ACS Journal of Surfaces and Colloids, Langmuir, 15(11):3693-3698 (1999).	
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<input checked="" type="checkbox"/>	181	Kamat et al., J. Phys. chem., 93(4):1405-1409 (1989). Abstract	
<input checked="" type="checkbox"/>	182	Fotin, A. et al., "Parallel Thermodynamic Analysis of Duplexes on Oligodeoxyribonucleotide Microchips," Nucleic Acids Research, 216(6):1515-1521 (1998).	
<input checked="" type="checkbox"/>	183	Guschin, D. et al., "Manual Manufacturing of Oligonucleotide, DNA, and Protein Microchips," Analytical Biochemistry, 250:203-211 (1997).	
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 8065 1449A.FRM (8/95)

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SERIAL NO:
09/621,275

FILING DATE:
July 20, 2000

GROUP 1634
NOT YET ASSIGNED

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INFORMATION DISCLOSURE CITATION

PTO-1449

DEC 26 2000

ATTY. DOCKET NO.
A-67499-1/RFT/
RMS/RMK

SERIAL NO:
09/472,657

APPLICANT:
KAYYEM

FILING DATE:
December 27, 1999

GROUP
3736 1634

PATENT DOCUMENTS							
EXAMINER'S INITIALS		PATENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE
<i>uv</i>	205	6,001,087	12/1999	Zurcher			
<i>uv</i>	206	5,975,343	11/1999	Kelly et al.			

FOREIGN PATENT DOCUMENTS								
EXAMINER'S INITIALS		PATENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
							Yes	No

OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, Etc.)							
<i>uv</i>	207	Vacutainer PPT, Product Circular, 1-8 (1997).					
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EXAMINER				DATE CONSIDERED			
<i>uv</i>				1/11/2003			

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Application Number	09/427,657
Filing Date	December 27, 1999
First Named Inventor	Kayyem
Group Art Unit	3236 1634
Examiner Name	Not Yet Assigned
Attorney Docket Number	A-67499-1/RFT/RMS/RMK

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (if known)			
m ↓	1	4,704,193		Bowers et al.	11/1987	
	2	4,707,352		Stavrianopoulos	11/1987	
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FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁴
		Office ³	Number ⁴	Kind Code ² (if known)				
m ↓	20	WO	85/05815		Genetics International, Inc.	03/1985		
	21	WO	97/31256	A3	Cornell Research Found.	08/1997		
	22	WO	97/41425	A1	Pence Inc.	11/1997		
	23	WO	98/27229		University of Chicago	06/1998		
	24	WO	98/51823	A1	Mosaic Technologies	11/1998		
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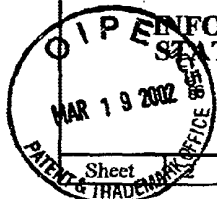
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet of 3

Complete if Known

Application Number	09/427,657
Filing Date	December 27, 1999
First Named Inventor	Kayyem
Group Art Unit	2736 1634
Examiner Name	Not Yet Assigned
Attorney Docket Number	A-67499-1/RFT/RMS/RMK

U.S. PATENT DOCUMENTS

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		Number	Kind Code ² (if known)			
u	25	6,071,699		Meade et al.	06/2000	
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Examiner Initials*	Cite No. ¹	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁵
		Office ³	Number ⁴	Kind Code ² (if known)				
u	36	WO	98/57319	A1	Clinical Micro Sensors, Inc.	11/1999		
	37	WO	99/29711	A1	Nanogen Inc.	06/1999		
	38	WO	99/37819		Clinical Micro Sensors	07/1999		

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Sheet	3	of	3	Attorney Docket Number	A-67499-1/RFT/RMS/RMK

[illegible]

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